

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims

1. (original) A composition comprising an antibody specific for a soluble antigen of a *C. parvum* sporozoite.
2. (original) The composition of claim 1 wherein the antibody is a monoclonal antibody.
3. (original) The composition of claim 1 wherein the antibody exhibits minimal crossreactivity with *C. parvum* oocyst proteins or peptides.
4. (original) The composition of claim 1 wherein the antibody exhibits minimal crossreactivity with other *Cryptosporidium* species.
5. (original) The composition of claim 1 wherein the antibody is the antibody deposited with the ATCC as CRL-12604.
6. (withdrawn) A method for the detection of *C. parvum* in a sample comprising incubating an antibody specific for a soluble antigen of a *C. parvum* sporozoite with the sample and detecting the binding of the antibody to the soluble antigen of a *C. parvum* sporozoite in the sample, wherein the detection of binding indicates the presence of *C. parvum* in the sample.
7. (withdrawn) The method of claim 6 wherein the sample is treated to excyst *C. parvum* oocysts to release sporozoite antigen.
8. (withdrawn) The method of claim 6 wherein the sample is a water sample.
9. (withdrawn) The method of claim 6 wherein the sample is a biological fluid.

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10. (withdrawn) The method of claim 6 wherein the method is an immunoassay.
11. (withdrawn) The method of claim 6 having a detection sensitivity of less than 200 oocysts per milliliter.
12. (withdrawn) The method of claim 6 having a detection sensitivity of less than 100 oocysts per milliliter.
13. (withdrawn) The method of claim 6 wherein the sample has a high turbidity.
14. (withdrawn) The method of claim 6 wherein the sample is treated by a biological mechanism to cause excystation of *C. parvum* oocysts in the sample, thereby releasing sporozoites from viable oocysts in the sample.
15. (withdrawn) The method of claim 6 wherein the sample is treated by mechanical disruption, thereby releasing sporozoites from viable and non-viable oocysts in the sample.
16. (withdrawn) The method of claim 6 wherein the antibody is the antibody deposited with the ATCC as CRL-12604.
17. (previously presented) The composition of claim 1 wherein the sporozoite is released by a biological mechanism that causes excystation of *C. parvum* oocysts in a sample, thereby releasing sporozoites from viable oocysts in the sample.
18. (previously presented) The composition of claim 1 wherein the sporozoite is released by mechanical disruption from viable and non-viable oocysts in a sample.
19. (newly added) A composition comprising an antibody that specifically binds an antigen specific to soluble *C. parvum* sporozoites.

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20. (newly added) A composition comprising an antibody that specifically binds a specific soluble antigen from *C. parvum* sporozoites.